

1 What is claimed is:

2 1. A method of configuring processors in a target system,
3 comprising:
4 prompting a user to select workload units to use in the
5 configuration of the processor in the target system;
6 prompting the user to input a quantity of processing power required
7 in terms of partition workload capacity required;
8 obtaining a system work capacity for the target system in the
9 appropriate units from a look-up table;
10 calculating the number of partition processors;
11 wherein the number of partition processors equals the total number
12 of system processors, times the partition workload capacity divided by the
13 system work capacity;
14 testing the calculated number of partition processors to see if it is
15 within a predetermined percentage of the next full processor increment;
16 if within the predetermined percentage, then recommending using
17 dedicated processors, otherwise recommending using shared processors;
18 displaying the calculated number of partition processors and the
19 recommended use of dedicated or shared processors to the user for
20 validation or changing of the values; and
21 after validation, configuring the target system processors according
22 to the settings determined by the routine.

1 2. The method according to claim 1, wherein the workload units
2 to use in the configuration of the processor in the target system are in
3 commercial processing workload (CPW) units, transaction processing
4 performance council (TPC-C) units, or any well-defined workload
5 measurement units.
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1 3. The method according to claim 1, wherein the number of
2 partition processors calculated has a resolution of at least two digits to the
3 right of the decimal.

1 4. The method according to claim 1, wherein the
2 predetermined percentage of the next full processor increment is twenty-
3 five percent.

1 5. A processing system running multiple operating system
2 images (same or different) having logical partitions and implementing the
3 method according to claim 1.

1 6. A computer program product, comprising:
2 a recording medium; and
3 instruction means, disposed on the recording medium, for causing
4 a computer to implement the method of configuring processors in a target
5 system according to claim 1.

1 7. A computer system having processing means, storage
2 means, input means, and display means, and operating a graphical user
3 interface utilizing the method according to claim 1.

1 8. A graphical user interface comprising:
2 means for prompting a user to select workload units to use in
3 configuration of processors in a target system;
4 means for prompting the user to input a quantity of processing
5 power required in terms of partition workload capacity required;
6 means for obtaining a system work capacity for the target system in
7 the appropriate units from a look-up table;
8 means for calculating the number of partition processors;

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9 wherein the number of partition processors equals the total number
10 of system processors, times the partition workload capacity divided by the
11 system work capacity;

12 means for testing the calculated number of partition processors to
13 see if it is within a predetermined percentage of the next full processor
14 increment;

15 means for recommending using dedicated processors if within the
16 predetermined percentage, and otherwise recommending using shared
17 processors;

18 means for displaying the calculated number of partition processors
19 and the recommended use of dedicated or shared processors to the user
20 for validation or changing of the values; and

21 means for configuring the target system processors according to
22 the settings determined by the above means after validation.

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1 9. The graphical user interface according to claim 8, wherein
2 the workload units to use in the configuration of the processor in the target
3 system are in commercial processing workload (CPW) units, transaction
4 processing performance council (TPC-C) units, or any well-defined
5 workload measurement units.

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1 10. The graphical user interface according to claim 8, wherein
2 the number of partition processors calculated has a resolution of two digits
3 to the right of the decimal.

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1 11. The graphical user interface according to claim 8, wherein
2 the predetermined percentage of the next full processor increment is
3 twenty-five percent.

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1 12. A processing system running multiple operating system
2 images (same or different) having logical partitions and implementing the
3 a graphical user interface according to claim 8.
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1 13. A computer program product, comprising:
2 a recording medium; and
3 instruction means, disposed on the recording medium, for causing
4 a computer to implement the graphical user interface according to claim 8.
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1 14. A computer system comprising:
2 partition processing means for running multiple operating system
3 images;
4 storage means for storing a program and data;
5 an input device for inputting data; and
6 display means for displaying graphical representations to a user;
7 wherein the program implements the graphical user interface for
8 configuring processors.
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